Attorney Docket No.: 013012-000220US

WHAT IS CLAIMED IS:

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1		1.	A smoking cessation method, said method comprising:
2		measu	ring a blood nicotine concentration while a patient is smoking;
3		determ	nining at least two values corresponding to patient characteristics
4	selected from	the gro	up consisting of a body mass factor, a cumulative smoking factor, a
5	psychological	depend	lence factor, age, and menopausal status; and
6		admin	istering nicotine to the patient at an initial dosage determined based or
7	said blood nicotine concentration and said at least two values.		
1		2.	A method as in claim 1, wherein the nicotine is administered
2	transdermally with the initial dosage controlled by the area of transdermal delivery.		
1		3.	A method as in claim 1, wherein the nicotine is administered
2	transdermally with the initial dosage controlled by the concentration of nicotine in a		
3	transdermal pa	itch.	
1		4.	A method as in claim 1, wherein the initial dosage is determined to
2	maintain a target serum nicotine level in the patient which is at least 40% of the smoking		
3	nicotine concentration.		
1		5.	A method as in claim 1, wherein the patient is a male and the patient
2	characteristics include at least a body mass factor and a cumulative smoking factor.		
1		6.	A method as in claim 5, wherein the body mass factor is a body mass
2	index which is weight divided by height squared and wherein the cumulative smoking		
3	factor is the number of packs smoked per day immediately prior to cessation times the		
4	number of year	rs smol	ked.
1		7.	A method as in claim 5, wherein the patient characteristics further
2	include a psycl	hologic	cal dependence factor, which is measured using the Fagerström
3	Tolerance Questionnaire.		
1		8.	A method as in claim 7, wherein the patient characteristics further
2	include age measured as years.		
1		9.	A method as in claim 1, wherein the patient is a female and the

patient characteristics include at least a psychological dependence factor and age.

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1	10. A method as in claim 9, wherein the psychological dependence		
2	factor is measured using the Fagerström Tolerance Questionnaire and age is measured as		
3	years.		
1	11. A method as in claim 9, wherein the patient characteristics further		
2	include menopausal status, wherein no factor is introduced for pre-menopausal women and		
3	wherein a body mass factor is introduced for post-menopausal women.		
1	12. A method as in claim 11, wherein the patient characteristics further		
2	include a body mass factor which is weight divided by height squared.		
1	13. A method as in claim 1, wherein the blood nicotine level is measured		
2	as a stable nicotine metabolite.		
1	14. A method for determining a relationship between nicotine dosage		
2	and nicotine serum concentration in a population of patients who smoke tobacco, said		
3	method comprising:		
4	measuring blood nicotine concentrations in individual patients in said		
5	population while said individuals are smoking;		
6	administering a known dosage of nicotine to the patient after the patient has		
7	stopped smoking;		
8	measuring blood nicotine concentrations in each individual patient while		
9	administering nicotine and while the patient refrains from smoking;		
10	determining at least two values corresponding to characteristics from each		
11	individual patient selected from the group consisting of a body mass factor, a cumulative		
12	smoking factor, a psychological dependence factor, age, and menopausal status; and		
13	determining a relationship between nicotine dosage and nicotine serum		
14	concentration as a function of blood nicotine concentration while smoking and said at least		
15	two patient characteristics.		
1	15. A method as in claim 14, wherein the dosage is administered		
2	transdermally with at least one patch, wherein the determined relationship is blood nicotine		
3	level per patch.		
1	16. A method as in claim 14, wherein the patient is a male and the		

patient characteristics include at least a body mass factor and a cumulative smoking factor.

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A method as in claim 16, wherein the body mass factor is a body

2 mass index which is weight divided by height squared and wherein the cumulative smoking factor is the number of packs smoked per day immediately prior to cessation times the 3 number of years smoked. 4 18. A method as in claim 16, wherein the patient characteristics further 1 include a psychological dependence factor, which is measured using the Fagerström 2 Tolerance Questionnaire. 3 A method as in claim 18, wherein the patient characteristics further 1 19. 2 include age measured as years. 20. A method as in claim 14, wherein the patient is a female and the 1 2 patient characteristics include at least a psychological dependence factor and age. 21. A method as in claim 20, wherein the psychological dependence 1 2 factor is measured using the Fagerström Tolerance Questionnaire and age is measured as 3 years. A method as in claim 20, wherein the patient characteristics further 22. 1 include menopausal status, wherein no factor is introduced for pre-menopausal women and 2 3 wherein a body mass factor is introduced for post-menopausal women. A method as in claim 22, wherein the patient characteristics further 23. 1 2 include a body mass factor which is weight divided by height squared. 24. A method as in claim 14, wherein the blood nicotine level is 1 2 measured as a stable nicotine metabolite.

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